#### PATENT COOPERATION TREATY

#### From the INTERNATIONAL SEARCHING AUTHORITY

To:

CROMPTON CORPORATION
Attn. DILWORTH, Michael
199 Benson Road
Middlebury, CT 06749
UNITED STATES OF AMERICACEIVED

NOV 11 2002

LAW DEPARTMENT

LNIROYAL CHEMICAL

# PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing

(day/month/year)

11/11/2002

Applicant's or agent's file reference OMPANY, INC.

**00710**S

**Applicant** 

International application No.

PCT/US 02/04870

FOR FURTHER ACTION

See paragraphs 1 and 4 below

International filing date (day/month/year)

20/02/2002

CROMPTON CORPORATION

1. The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO

34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

- 2. The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.
- 3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
  - the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
  - no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
- 4. Further action(s): The applicant is reminded of the following:

Shortly after **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90*bis*.1 and 90*bis*.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk

Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

Fax: (+31-70) 340-3016

Authorized officer

Alicja Van der Heijden

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively

#### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

#### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

## The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
  "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
  "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

#### It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

#### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

## PATENT COOPERATION TREATY

# PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		of Transmittal of International Search Report (20) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 02/04870	20/02/2002	22/02/2001
Applicant		
CROMPTON CORPORATION		
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Searching Autlansmitted to the International Bureau.	hority and is transmitted to the applicant
This International Search Report consists  [X] It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	report.
Basis of the report		ais of the international application in the
	international search was carried out on the balless otherwise indicated under this item.	sis of the international application in the
the international search v Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of t	he international application furnished to this
b. With regard to any nucleotide ar was carried out on the basis of the		nternational application, the international search
	onal application in written form.	
	ernational application in computer readable for	m.
	this Authority in written form.	
	o this Authority in computer readble form.  bsequently furnished written sequence listing o	toes not an beyond the disclosure in the
1 1	as filed has been furnished.	des not go beyond the disclosure in the
the statement that the inf furnished	ormation recorded in computer readable form i	s identical to the written sequence listing has been
2. Certain claims were fou	ind unsearchable (See Box I).	
3. Unity of invention is lac	king (see Box II).	
4. With regard to the <b>title</b> ,		
the text is approved as si	ubmitted by the applicant.	
the text has been established	shed by this Authority to read as follows:	
5. With regard to the abstract,		
	ubmitted by the applicant.	
	shed, according to Rule 38.2(b), by this Author e date of mailing of this international search re	
6. The figure of the <b>drawings</b> to be pub	lished with the abstract is Figure No.	1
as suggested by the app	licant.	None of the figures.
because the applicant fai		
because this figure bette	r characterizes the invention.	

International application No.

#### INTERNATIONAL SEARCH REPORT

PCT/US 02/04870

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The present invention is directed to a composition comprising (1) a compound having an epoxy functionality, a compound having an alkoxy functionality, and a crosslinker, and (2) a catalyst, preferably as an aqueous emulsion. Upon treating fibers or fabrics with the composition of the present invention, a condensation reaction product is formed upon reaction with the catalyst at curing temperatures that imparts superior durability, water repellency, and softness to the fibers or fabrics.

#### INTERNATIONAL SEARCH REPORT

International Application No PCT/US 02/04870

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 D06M15/65 D06M15/643 C08J3/03

C08L83/04

According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

D06M C08J C08L C09D D06N IPC 7

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 1 123 447 A (DOW CORNING) 14 August 1968 (1968-08-14) examples	1-19
Α	EP 0 553 840 A (DOW CORNING TORAY SILICONE) 4 August 1993 (1993-08-04) page 2, line 19 -page 4, line 40	1-19
Α	EP 0 764 702 A (DOW CORNING TORAY SILICONE) 26 March 1997 (1997-03-26) page 2, line 29 -page 4, line 28	1-19
A	US 5 395 549 A (ONA ISAO ET AL) 7 March 1995 (1995-03-07) column 1, line 51 -column 2, line 33/	1-19

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document but published on or after the international filing date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul>	<ul> <li>"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search	Date of mailing of the international search report
31 October 2002	11/11/2002
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL ~ 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax. (+31-70) 340-3016	Authorized officer Fiocco, M

2

## INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 02/04870

ategon, °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
ategory "	опанон от посители, мин инисанов, мнеге арргорнате, от те тегечати раззадез	TICICYANI (O CIAIII I NO
J	US 4 891 398 A (TANAKA MASAKI ET AL) 2 January 1990 (1990-01-02) column 1, line 60 -column 2, line 47	1-19
	<del></del>	

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US 02/04870

Patent document cited in search report	:	Publication date		Patent family member(s)	Publication date
GB 1123447	A	14-08-1968	AT BE CH CH DE FR	275468 B 681549 A 463452 B 601966 A 1594992 A1 1474558 A	27-10-1969 25-11-1966 28-06-1968 10-12-1970 24-03-1967
			NL NL	131557 C 6607179 A	28-11-1966
EP 0553840	Α	04-08-1993	JP JP DE DE EP US	2592021 B2 5214295 A 69301934 D1 69301934 T2 0553840 A1 5877256 A	19-03-1997 24-08-1993 02-05-1996 05-09-1996 04-08-1993 02-03-1999
EP 0764702	Α	26-03-1997	JP JP EP US	3115808 B2 9087585 A 0764702 A2 5789084 A	11-12-2000 31-03-1997 26-03-1997 04-08-1998
US 5395549	Α	07-03-1995	JP JP CA DE DE EP	2935879 B2 4119173 A 2050665 A1 69104448 D1 69104448 T2 0474207 A1	16-08-1999 20-04-1992 06-03-1992 10-11-1994 09-03-1995 11-03-1992
US 4891398	Α	02-01-1990	JP JP JP	1045466 A 1786817 C 4078657 B	17-02-1989 10-09-1993 11-12-1992